JCOS Rec'd PCT/PTO 1 2 APR 2005

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV544977822US. in an envelope addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1430, Alexandria, VA 22313-1450, on the date shown below.

Dated: April 12, 2005

Signature: Dated: April 12, 2005

(Georgina Matos)

Dated: April 12, 2005

esqua watos (Georgina Matos)

PTO-1390 (Rev. 02-2005)

| Under the l | Panerwork Reduction Act of 1995, no. | U. S. Patent and Trad | proved for use through 03/31/2007. OMB 0631-0021 demark Office; U.S. DEPARTMENT OF COMMERCE primation unless it displays a valid OMB control number. | | | | | | | | | | |
|---|--|---|--|--|--|--|--|--|--|--|--|--|--|
| - | | ATTORNEY'S DOCKET NUMBER | | | | | | | | | | | |
| | ANSMITTAL LETTER DESIGNATED/ELECT | 562492004100 | | | | | | | | | | | |
| CON | ICERNING A SUBMIS | U.S. APPLICATION NO. (If known, see 37 CFR 1.5) No. (If known, see 37 CFR 1.5) | | | | | | | | | | | |
| INTERNA | ATIONAL APPLICATION NO. PCT/GB03/04587 | INTERNATIONAL FILING DATE 24 October 2003 | PRIORITY DATE CLAIMED | | | | | | | | | | |
| TITLE OF | | AND ARRANGEMENT FOR CHANNEL | 24 October 2002 ESTIMATION IN A WIRELESS | | | | | | | | | | |
| COMMUNICATION SYSTEM | | | | | | | | | | | | | |
| APPLICANT(S) FOR DO/EO/US Peter B. DARWOOD et al. | | | | | | | | | | | | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | | | | | | | | | | | | |
| 1. x | This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. | | | | | | | | | | | | |
| 2. | This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. | | | | | | | | | | | | |
| 3. | This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below. | | | | | | | | | | | | |
| 4. | The US has been elected (Article 31). | | | | | | | | | | | | |
| 5. x | A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) | | | | | | | | | | | | |
| a. | is attached hereto (required only if not communicated by the International Bureau). | | | | | | | | | | | | |
| b. | x has been communicated by the International Bureau. | | | | | | | | | | | | |
| С. | is not required, as the application was filed in the United States Receiving Office (RO/US). | | | | | | | | | | | | |
| 6. | An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)). | | | | | | | | | | | | |
| a. | is attached hereto. | | | | | | | | | | | | |
| b. | has been previously submitted under 35 U.S.C. 154(d)(4). | | | | | | | | | | | | |
| 7. x | Amendments to the claims o | f the International Application under PCT | Artide 19 (35 U.S.C. 371 (c)(3)) | | | | | | | | | | |
| a. | are attached hereto (requ | uired only if not communicated by the Inte | mational Bureau). | | | | | | | | | | |
| b. | have been communicate | d by the International Bureau. | | | | | | | | | | | |
| c. | have not been made; ho | have not been made; however, the time limit for making such amendments has NOT expired. | | | | | | | | | | | |
| d. | x have not been made and will not be made. | | | | | | | | | | | | |
| 8. | An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)). | | | | | | | | | | | | |
| 9. | An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). | | | | | | | | | | | | |
| 10. | An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)). | | | | | | | | | | | | |
| Items 1 | 1 to 20 below concern doc | cument(s) or information included: | | | | | | | | | | | |
| 11. | An Information Disclosure S | tatement under 37 CFR 1.97 and 1.98. | | | | | | | | | | | |
| 12. | An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. | | | | | | | | | | | | |
| 13. | A preliminary amendment. | | | | | | | | | | | | |
| 14. x | An Application Data Sheet under 37 CFR 1.76. (3 pages) | | | | | | | | | | | | |
| 15. | A substitute specification. | | | | | | | | | | | | |
| 16. | A power of attorney and/or o | hange of address letter. | | | | | | | | | | | |
| 17. | A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. | | | | | | | | | | | | |
| 18. | A second copy of the published International Application under 35 U.S.C. 154(d)(4). | | | | | | | | | | | | |
| 19. | A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). | | | | | | | | | | | | |
| 20. x | Other items or information: | Return Receipt Postcard | | | | | | | | | | | |

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PTO-1390 (Rev. 02-2005)
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|---|--|-------------------------------|------------|---|--|--|---------------------------------------|------------------|-----------------------------|--------------------|--|
| U.S. APPLICATION NO. (it/uppun, see 37 CFR 1.5). INTERNATIONAL APPLICATION NO. PCT/GB03/04587 | | | | | | | ATTORNEY'S DOCKET NUMBER 562492004100 | | | | |
| The following fees have been submitted | | | | | | | | t | CALCULATIONS | PTO USE ONLY | |
| 21. X Basic national fee\$300 | | | | | | | | | 300.00 | | |
| 22. x Exan | ninatio | \$ | | | | | | | | | |
| | | | on report | orena | red by USPTO and | all claims | eatiefy | - | | | |
| provisions of | PCT / | Article 33(1)-(4) | \$100 | İ. | | | | | | | |
| All other situatio | | | S | 200.00 | | | | | | | |
| 23. x Sean | ch fee | • | | | | | | ı | | Ī | |
| USPTO | as an | International Se | earching | Autho | he international aprityto the Office | · | \$100 | | | | |
| | ns | <u></u> | | | | | | \$ | 400.00 | | |
| | | TOTAL OF 21 | <u> </u> | | | | | \$ | 900.00 | | |
| sequence | listin | g or computer p | program | isting | filed in paper over filed in an electroni or fraction thereof. | | | | | | |
| Total Sheets | Total Sheets Extra sheets | | | Number of each additional 50 or fract thereof (round up to a whole number | | | RATE | | | | |
| 24 - 100 = | 0 | | <u> </u> | | | | x \$250.00 | 4_ | 0.00 | | |
| Surcharge of \$1 from the earliest | | | ns | \$ | 0.00 | | | | | | |
| CLAIMS | om the earliest claimed priority date (37 CFR 1.492 (e)). CLAIMS NUMBER FILED NUMBER EXTRA RATE | | | | | | RATE | 1 | | L | |
| Total claims | | | | 20 = 6 x | | | 50.00 | s | 300.00 | | |
| Independent cla | ims | 3 | -3 = 0 | | | x | x 200.00 | | 0.00 | | |
| MULTIPLE DEP | ENDE | NT CLAIM(s) | (if applic | able) | | + | 360.00 | s | 360.00 | | |
| | TOTAL OF ABOVE CALCULATIONS = | | | | | | | | 660.00 | | |
| Applicant of | Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. | | | | | | | | 0.00 | | |
| SUBTOTAL = | | | | | | | | | 1560.00 | | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492 (f)). | | | | | | | | \$ 1560.00 \$ | | | |
| TOTAL NATIONAL FEE = | | | | | | | | | \$ 1560.00 | | |
| Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | | | | | | | | | | | |
| | | | | | TOTAL | FEES ENC | LOSED = | s | 1560.00 | | |
| | | | | | | | | | mount to be | \$ | |
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| a. Da ch | aalı in | the energy of | | | | | - | | harged: | <u> </u> | |
| | | the amount o | _ | | | | he above fees | | | | |
| | | arge my Depo e above fees. | | | opy of this sheet i | | in the amount I. | of | \$1560.00 | | |
| c. x The | Comn | nissioner is he | reby aut | horize | ed to charge any a | dditional fe | ees which ma | y be | e required, or credit a | ny | |
| over | oayme | ent to Deposit | Account | No. | 03-1952 | A du | plicate copy o | of th | is sheet is enclosed. | | |
| | | = | | | | | | | become public. Cred | | |
| NOTE: Where | an apı | propriate time | limit un | der 37 | CFR 1.495 has no | ot been me | et, a petition to | | vive (37 CFR 1.137 (a | | |
| must be filed and granted to restore the International Application to pending status. SEND ALL CORRESPONDENCE TO: | | | | | | | | | | | |
| SIGNATURE: Bryan H. Wyman | | | | | | | | | | | |
| | | | | | | NAM | | aii l | n. vvyman | | |
| | | | | | | 147781 | _ | | | | |
| CUSTOMER NUMBER: 25226 | | | | | | | 48,049 | | | | |